

COPY

<110> Bandman, Olga
 Goli, Surya K.
 Lal, Preeti G.
 Corley, Neil C.
 Zhang, Hong

<120> NEW PROTEIN PHOSPHATASE

<130> PF-0319-1 DIV

<140> To Be Assigned

<141> Herewith

<160> 4

<170> PERL Program

<210> 1

<211> 479

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 013177CD1

<400> 1
 Met Gly Ala Phe Leu Asp Lys Pro Lys Thr Glu Lys His Asn Ala
 1 5 10 15
 His Gly Ala Gly Asn Gly Leu Arg Tyr Gly Leu Ser Ser Met Gln
 20 25 30
 Gly Trp Arg Val Glu Met Glu Asp Ala His Thr Ala Val Val Gly
 35 40 45
 Ile Pro His Gly Leu Glu Asp Trp Ser Phe Phe Ala Val Tyr Asp
 50 55 60
 Gly His Ala Gly Ser Arg Val Ala Asn Tyr Cys Ser Thr His Leu
 65 70 75
 Leu Glu His Ile Thr Thr Asn Glu Asp Phe Arg Ala Ala Gly Lys
 80 85 90
 Ser Gly Ser Ala Leu Glu Leu Ser Val Glu Asn Val Lys Asn Gly
 95 100 105
 Ile Arg Thr Gly Phe Leu Lys Ile Asp Glu Tyr Met Arg Asn Phe
 110 115 120
 Ser Asp Leu Arg Asn Gly Met Asp Arg Ser Gly Ser Thr Ala Val
 125 130 135
 Gly Val Met Ile Ser Pro Lys His Ile Tyr Phe Ile Asn Cys Gly
 140 145 150
 Asp Ser Arg Ala Val Leu Tyr Arg Asn Gly Gln Val Cys Phe Ser
 155 160 165
 Thr Gln Asp His Lys Pro Cys Asn Pro Arg Glu Lys Glu Arg Ile
 170 175 180
 Gln Asn Ala Gly Gly Ser Val Met Ile Gln Arg Val Asn Gly Ser
 185 190 195
 Leu Ala Val Ser Arg Ala Leu Gly Asp Tyr Asp Tyr Lys Cys Val
 200 205 210
 Asp Gly Lys Gly Pro Thr Glu Gln Leu Val Ser Pro Glu Pro Glu
 215 220 225
 Val Tyr Glu Ile Leu Arg Ala Glu Glu Asp Glu Phe Ile Ile Leu
 230 235 240
 Ala Cys Asp Gly Ile Trp Asp Val Met Ser Asn Glu Glu Leu Cys
 245 250 255
 Glu Tyr Val Lys Ser Arg Leu Glu Val Ser Asp Asp Leu Glu Asn
 260 265 270
 Val Cys Asn Trp Val Val Asp Thr Cys Leu His Lys Gly Ser Arg
 275 280 285
 Asp Asn Met Ser Ile Val Leu Val Cys Phe Ser Asn Ala Pro Lys

290	295	300
Val Ser Asp Glu Ala Val Lys Lys Asp Ser Glu Leu Asp Lys His		
305	310	315
Leu Glu Ser Arg Val Glu Glu Ile Met Glu Lys Ser Gly Glu Glu		
320	325	330
Gly Met Pro Asp Leu Ala His Val Met Arg Ile Leu Ser Ala Glu		
335	340	345
Asn Ile Pro Asn Leu Pro Pro Gly Gly Gly Leu Ala Gly Lys Arg		
350	355	360
Asn Val Ile Glu Ala Val Tyr Ser Arg Leu Asn Pro His Arg Glu		
365	370	375
Ser Asp Gly Ala Ser Asp Glu Ala Glu Glu Ser Gly Ser Gln Gly		
380	385	390
Lys Leu Val Glu Ala Leu Arg Gln Met Arg Ile Asn His Arg Gly		
395	400	405
Asn Tyr Arg Gln Leu Leu Glu Glu Met Leu Thr Ser Tyr Arg Leu		
410	415	420
Ala Lys Val Glu Gly Glu Glu Ser Pro Ala Glu Pro Ala Ala Thr		
425	430	435
Ala Thr Ser Ser Asn Ser Asp Ala Gly Asn Pro Val Thr Met Gln		
440	445	450
Glu Ser His Thr Glu Ser Glu Ser Gly Leu Ala Glu Leu Asp Ser		
455	460	465
Ser Asn Glu Asp Ala Gly Thr Lys Met Ser Gly Glu Lys Ile		
470	475	

<210> 2

<211> 2268

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 013177CB1

<400> 2

```

atattgtacc tatcaggcgt cagctctcaa tctagatccc tccctggcct cggacttatt 60
gcaaaacatg ggtgcttttt tggataaacc caaaactgaa aaacataatg ctcatggtgc 120
tgggaatggt ttacgttatg gcctgagcag catgcaagga tggagagtgg aaatggaaga 180
tgcacacaca gctgtttagt gtattcctca cggcttgga gactggtcat tttttgcagt 240
ttatgatggt catgctggat cccgagtggc aaattactgc tcaacacatt tattagaaca 300
catcactact aacgaagact ttagggcagc tggaaaatca ggatctgctc ttgagctttc 360
agtggaaaat gttaagaatg gtatcagaac tggatttttg aaaattgatg aatacatgcg 420
taacttttca gacctcagaa acgggatgga caggagtggg tcaactgcag tgggagttat 480
gattttacct aagcatatct actttatcaa ctgtgggtgat tcacgtgctg tcttgtatag 540
gaatggacaa gtcctgtttt ctaccaggaa tcacaaacct tgcaatccaa gggaaaagga 600
gcgaatccaa aatgcaggag gcagcgtgat gatacaacgt gttaatgggt cattagcagt 660
atctcgtgct ctgggggact atgattacaa gtgtgttgat ggcaagggcc caacagaaca 720
acttgtttct ccagagcctg aggtttatga aattttaaga gcagaagagg atgaatttat 780
catcttggct tgtgatggga tctgggatgt tatgagtaat gaggagctct gtgaatatgt 840
taaattctagg cttgaggtat ctgatgacct ggaaaatgtg tgcaattggg tagtggacac 900
ttgtttacac aagggaagtc gagataacat gagtattgta ctagtttgct tttcaaatgc 960
tcccaaggtc tcagatgaag cggtgaaaaa agattcagag ttggataagc acttggaatc 1020
acgggttgaa gagattatgg agaagtctgg cgaggaagga atgcctgatc ttgcccatgt 1080
catgcgcatc ttgtctgcag aaaatatccc aaatttgcc cctgggggag gtcttgcctg 1140
caagcgtaat gttattgaag ctgtttatag tagactgaat ccacatagag aaagtgatgg 1200
ggcctccgat gaagcagagg aaagtggatc acagggaaaa ttggtggaag ctctcaggca 1260
aatgagaatt aatcataggg gaaactaccg acaacttctg gaggagatgc tgactagtta 1320
caggctagct aaagtagagg gagaagaaag ccctgctgaa ccagctgcca cagctacttc 1380
ttcgaacagt gatgctggaa acccagtgc aatgcaggaa agccatactg aatcagaaaag 1440
tggctcttgc gaattagaca gctctaata agatgcaggg acaaaagatga gtgggtgaaa 1500
aatatgactt tccttttttg taatatTTTT ttatcttttg atgggttttt acctagggaag 1560
tgtaattgtat gcatttatat aactgttttg ttatttgaat cttggaaaac tagttttatt 1620
atattcagat agccttgttt tttaaaaagg cctttgcata cacctttatg agatagtgt 1680
aaattgacta tttatagtag tatggattta atgaaattat atgtcatttc acattgtatg 1740

```

```

ccagaaatta ggctaccaat tatgaattaa agtcagtagt taaattaata ctagatagaa 1800
ttagaaaattt tgattagaga gattatgcta tattatggaa aaacttggtta atgtagaatt 1860
atactgcttc atattatttt acctattagt acactcatag ttagctttgt aataaattta 1920
tgttttcttt aataatttta gttcttcaaa gaatggctga tgctggcctg taatttttct 1980
ttcaagggatg ataatttgtg tgttgtttga tttgtttata ttttacatct ctgtagtttt 2040
atTTTTtagaa gttgtgagat attggatgtg tggctatttt tcctttctct gtattcttta 2100
tgaaacataa cttttgaaaa acctatgtat tattcataca gctttgggtt gtatattctg 2160
tatagcctaa ctacacacat caaaatgtat gtcaaccaag tgtttagaat gaaattataa 2220
gtgtttaagt ccaaataaag catgtgatgt ggaataatca aaaaaaaaa 2268

```

<210> 3
 <211> 390
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> ID No: g247927

<400> 3

Met	Gly	Ala	Phe	Leu	Asp	Lys	Pro	Lys	Thr	Glu	Lys	His	Asn	Ala	1	5	10	15
His	Gly	Ala	Gly	Asn	Gly	Leu	Arg	Tyr	Gly	Leu	Ser	Ser	Met	Gln	20	25	30	35
Gly	Trp	Arg	Val	Glu	Met	Glu	Asp	Ala	His	Thr	Ala	Val	Val	Gly	40	45	50	55
Ile	Pro	His	Gly	Leu	Glu	Asp	Trp	Ser	Phe	Phe	Ala	Val	Tyr	Asp	60	65	70	75
Gly	His	Ala	Gly	Ser	Arg	Val	Ala	Asn	Tyr	Cys	Ser	Thr	His	Leu	80	85	90	95
Leu	Glu	His	Ile	Thr	Thr	Asn	Glu	Asp	Phe	Arg	Ala	Ala	Asp	Lys	100	105	110	115
Ser	Gly	Phe	Ala	Leu	Glu	Pro	Ser	Val	Glu	Asn	Val	Lys	Thr	Gly	120	125	130	135
Ile	Arg	Thr	Gly	Phe	Leu	Lys	Ile	Asp	Glu	Tyr	Met	Arg	Asn	Phe	140	145	150	155
Ser	Asp	Leu	Arg	Asn	Gly	Met	Asp	Arg	Ser	Gly	Ser	Thr	Ala	Val	160	165	170	175
Gly	Val	Met	Ile	Ser	Pro	Thr	His	Ile	Tyr	Phe	Ile	Asn	Cys	Gly	180	185	190	195
Asp	Ser	Arg	Ala	Val	Leu	Cys	Arg	Asn	Gly	Gln	Val	Cys	Phe	Ser	200	205	210	215
Thr	Gln	Asp	His	Lys	Pro	Cys	Asn	Pro	Met	Glu	Lys	Glu	Arg	Ile	220	225	230	235
Gln	Asn	Ala	Gly	Gly	Ser	Val	Met	Ile	Gln	Arg	Val	Asn	Gly	Ser	240	245	250	255
Leu	Ala	Val	Ser	Arg	Ala	Leu	Gly	Asp	Tyr	Asp	Tyr	Lys	Cys	Val	260	265	270	275
Asp	Gly	Lys	Gly	Pro	Thr	Glu	Gln	Leu	Val	Ser	Pro	Glu	Pro	Glu	280	285	290	295
Val	Tyr	Glu	Ile	Leu	Arg	Ala	Glu	Glu	Asp	Glu	Phe	Val	Val	Leu	300	305	310	315
Ala	Cys	Asp	Gly	Ile	Trp	Asp	Val	Met	Ser	Asn	Glu	Glu	Leu	Cys	320	325	330	335
Glu	Phe	Val	Asn	Ser	Arg	Leu	Glu	Val	Ser	Asp	Asp	Leu	Glu	Asn	340	345	350	355
Val	Cys	Asn	Trp	Val	Val	Asp	Thr	Cys	Leu	His	Lys	Gly	Ser	Arg	360	365	370	375
Asp	Asn	Met	Ser	Ile	Val	Leu	Val	Cys	Phe	Ala	Asn	Ala	Pro	Lys	380	385	390	395
Val	Ser	Asp	Glu	Ala	Val	Lys	Arg	Asp	Leu	Glu	Leu	Asp	Lys	His	400	405	410	415
Leu	Glu	Ser	Arg	Val	Glu	Glu	Ile	Met	Gln	Lys	Ser	Gly	Glu	Glu	420	425	430	435
Gly	Met	Pro	Asp	Leu	Ala	His	Val	Met	Arg	Ile	Leu	Ser	Ala	Glu	440	445	450	455

Asn Ile Pro Asn	335	340	345
Leu Pro Pro Gly Gly		Gly Leu Ala Gly Lys	Arg
Asn Val Ile Glu	350	355	360
Ala Val Tyr Ser Arg		Leu Asn Pro Asn Lys	Asp
Asn Asp Gly Gly	365	370	375
Ala Gly Asp Leu Glu		Asp Ser Leu Val Ala	Leu
	380	385	390

<210> 4
 <211> 390
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> ID No: g452526

<400> 4

Met Gly Ala Phe Leu Asp Lys Pro Lys Thr Glu Lys His Asn Ala		
1	5	10
His Gly Ala Gly Asn Gly Leu Arg Tyr Gly Leu Ser Ser Met Gln		15
	20	25
Gly Trp Arg Val Glu Met Glu Asp Ala His Thr Ala Val Val Gly		30
	35	40
Ile Pro His Gly Leu Asp Asn Trp Ser Phe Phe Ala Val Tyr Asp		45
	50	55
Gly His Ala Gly Ser Arg Val Ala Asn Tyr Cys Ser Thr His Leu		60
	65	70
Leu Glu His Ile Thr Thr Asn Glu Asp Phe Arg Ala Ala Asp Lys		75
	80	85
Ser Gly Ser Ala Leu Glu Pro Ser Val Glu Ser Val Lys Thr Gly		90
	95	100
Ile Arg Thr Gly Phe Leu Lys Ile Asp Glu Tyr Met Arg Asn Phe		105
	110	115
Ser Asp Leu Arg Asn Gly Met Asp Arg Ser Gly Ser Thr Ala Val		120
	125	130
Gly Val Met Val Ser Pro Thr His Met Tyr Phe Ile Asn Cys Gly		135
	140	145
Asp Ser Arg Ala Val Leu Cys Arg Asn Gly Gln Val Cys Phe Ser		150
	155	160
Thr Gln Asp His Lys Pro Cys Asn Pro Val Glu Lys Glu Arg Ile		165
	170	175
Gln Asn Ala Gly Gly Ser Val Met Ile Gln Arg Val Asn Gly Ser		180
	185	190
Leu Ala Val Ser Arg Ala Leu Gly Asp Tyr Asp Tyr Lys Cys Val		195
	200	205
Asp Gly Lys Gly Pro Thr Glu Gln Leu Val Ser Pro Glu Pro Glu		210
	215	220
Val Tyr Glu Ile Val Arg Ala Glu Glu Asp Glu Phe Val Val Leu		225
	230	235
Ala Cys Asp Gly Ile Trp Asp Val Met Ser Asn Glu Glu Leu Cys		240
	245	250
Glu Phe Val Lys Ser Arg Leu Glu Val Ser Asp Asp Leu Glu Asn		255
	260	265
Val Cys Asn Trp Val Val Asp Thr Cys Leu His Lys Gly Ser Arg		270
	275	280
Asp Asn Met Ser Val Val Leu Val Cys Phe Ser Asn Ala Pro Lys		285
	290	295
Val Ser Glu Glu Ala Val Lys Arg Asp Ser Glu Leu Asp Lys His		300
	305	310
Leu Glu Ser Arg Val Glu Glu Ile Met Gln Lys Ser Gly Glu Glu		315
	320	325
Gly Met Pro Asp Leu Ala His Val Met Arg Ile Leu Ser Ala Glu		330
	335	340

Asn	Ile	Pro	Asn	Leu	Pro	Pro	Gly	Gly	Gly	Leu	Ala	Gly	Lys	Arg
				350					355					360
His	Val	Ile	Glu	Ala	Val	Tyr	Ser	Arg	Leu	Asn	Pro	His	Lys	Asp
				365					370					375
Asn	Asp	Gly	Gly	Ala	Gly	Asp	Leu	Glu	Asp	Ser	Leu	Val	Ala	Leu
				380					385					390

1009130 020500